

SER322: Team 3
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Deliverable 1: Basic Design of UI (Text-Based)

Main Menu

1. Manage Students
2. Manage Instructors
3. Manage Courses
4. Manage Ranges
5. Manage Classrooms
6. Manage Bikes

Secondary Menus (from main menu)

1. Manage Students
 - 1.1. Create New Student (user enters data below)
 - 1.1.1. STUDENT ID
 - 1.1.2. NAME:
 - 1.1.3. DOB:
 - 1.1.4. ADDRESS:
 - 1.1.5. PHONE:
 - 1.2. View Students
 - 1.2.1 User can view all students and data in student table
 - 1.2.2 The user can also view a specific student's report of: payment records, and final grades

Example: Student Report

Grades:

Course 1

Payment Status:

Written Test Grade:

Exercise 1:

Exercise 2:

Exercise 3:

Exercise 4:

Exercise 5:

Course 2

Payment Status:
Written Test Grade:
Exercise 1:
Exercise 2:
Exercise 3:
Exercise 4:
Exercise 5:

1.3. Edit Student

- 1.3.1 Edit Student Name
- 1.3.2 Edit Student Address
- 1.3.3 Edit Student Phone

1.4 Remove Student (removes all student data)

- Note: User deletes the student and their data based on student id. User enters id.

2. Manage Instructors

2.1 Create New Instructor (User enters the following data)

- 2.1.1. Instructor name:
- 2.1.2. Instructor id:
- 2.1.3. Date of birth:
- 2.1.4. Address:
- 2.1.5. Phone number:
- 2.1.6 Can coach dirt bike on range (t/f)
- 2.1.7 Can coach street bike on range (t/f)
- 2.1.8 Can teach streetbike in classroom (t/f)

2.2. View Instructors

- User views the above data in the instructor information menu.

2.2.1. List available instructors for a given day (for certain day)

- Need to view instructor id, name, coach_dirt_bike, coach_street, teach_street, date

2.2.2 List schedule of an instructor based on id

- need to view instructor id, name, course id and course name of all courses instructor is assigned to, type, course_date, session(s) assigned

2.3. Edit Instructor

- 2.3.1 Edit Instructor name
- 2.3.2 Edit Instructor address
- 2.3.3 Edit Instructor phone number
- 2.3.4 Edit whether instructor can coach dirt bike on range
- 2.3.5 Edit whether instructor can coach street bike on range
- 2.3.6 Edit whether instructor can teach street bike in classroom.

2.4 Remove Instructor

User deletes the instructor based on id.

3. Manage Courses

3.1. Create New Course

3.1.1. Enter Course Name

3.1.2. Enter Course Description

3.1.3. Enter Course cost

3.1.4. Enter Course id

3.1.5. Select course type (Dirt or Street)

3.1.5.1. Create New Dirt Bike Course (*Always all day session*)

- Add Instructor to Course (*need 3 dirt bike range coaches; ensure they can instruct dirt range course*)
- Add Student to Course (*max always = 15 for dirt*)
 - Add payment record (paid or not)
- Assign Course Location: (*always dirt bike range type*)
- Add Bikes (by vin) (*always type dirt bike*)

3.1.5.2 Create New Street Bike Course

- Add Instructor
 - (*requires 1 classroom and 3 range coaches*)
 - (*ensure they can instruct street classroom and/or street range*)
- Add Student (*max = 15 or 30*)

[[Query adds payment and exam record for each student. Exam record can be null for new students]]

○ Add Assigned Classroom: (*below options*)

- Classroom A if size ≤ 15
- Classroom B if size > 15

○ Add Assigned Range: (*below options*)

- Range 1, 2, 3, or other street range depending on availability and course size

3.2. View Course

- The user can view course data above.

Course ID	Instructor IDs	Student IDs Location Schedule Date	VIN
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S6969	MA1111 PE2222 TI3333 CA4444	BI0001	Classroom: A	1234234
			AM:	1234123
			12/1	1235233
		BO0002	Range: R2	1234522
			Classroom	1234562
		SA0003	PM: Range	1234634
				3456345
		RR0004		5655453
		SA0005		4878456
		SE0006		2344512
		PT0007		9078978
		SD0008		7897893
		EQ0009		2453232
		KF0010		2344543
		DS0011		4654345
		RE0012		3453452
		SD0013		
		AS0014		
		PI0015		
		PO0016		
C4200
DB1234
BMS01

3.3. Edit Course

3.3.1. Edit Course Date

3.3.2. Edit Student Enrollment data

3.3.2.1. User enters student by student id

3.3.2.1.1. Edit Payment Record for a given course/student

3.3.2.1.2. Edit Written Test Final Score

3.3.2.1.3. Edit Exercise 1 Score

3.3.2.1.4. Edit Exercise 2 Score

3.3.2.1.5. Edit Exercise 3 Score

3.3.2.1.6. Edit Exercise 4 Score

3.3.2.1.7. Edit Exercise 5 Score

3.4 Remove Course

- The user can remove the course and its data based on course id.

4.) Manage Ranges

4.1. Create new Range

4.1.1. Enter range number:

4.1.2. Enter range type: (dirt or street)

4.1.3. Enter range max capacity

4.2. View Range

- 4.2.1. View all ranges
- 4.2.2. View Seats Remaining
- 4.2.3. View Range Report

○ User views range data.

Range ID	Range type	Schedule w/ Course Date	Range Status (full reserved,am/pm available)
Range 1	Street	N/A N/A	
Range 2	Street	AM - Available 12/1 PM - S1234	Available AM
Range 3	Street	AM - S1234 12/1 PM - Available	Available PM
Range 4	Dirt	ALL DAY - D6969 12/1	Full Reserved

4.3. Edit Range

4.3.1. Edit Range Max Capacity

4.3.2. Edit Range Type

4.4. Remove Range

○ User can delete a range based on id

5.) Manage Classrooms

5.1. Create new Classroom

5.1.1. Enter classroom id (char)

5.1.2. Enter range max capacity (int)

5.2. View Classrooms

5.2.1. View all Classrooms

5.2.2. View Available Seats on Given Date

5.2.3. View Available Classrooms on Given Date

○ The user can view classroom data.

Class ID	Schedule w/ Course Date Classroom Status (full reserved,am/pm available)
A	AM - S6969 12/1 Available PM PM - Available

B	AM - Available PM - S1234	12/1 Available AM
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5.3. Edit Classroom Max Capacity

5.4. Remove Classroom

- The user can delete a classroom based on id

6) Manage Bikes

6.1. Create New Bike

6.1.1. Enter brand:

6.1.2. Enter cc:

6.1.3. Enter bike type: (dirt or street)

6.1.4. Enter VIN

6.1.5. Enter license plate

6.1.6. Enter whether bike is in repair (yes/no):

6.2. View Bike

6.2.1. View All Street Bikes

6.2.2. View All Dirt Bikes

6.2.3. View Bike Availability

6.2.4. View Bikes in Repair

6.2.5. View Bike History

The user can view bike data including repair history from the manage bike view menu and course view menu.

Bike Type	VIN	CC Brand License Plate Repair Status	Repair History
Dirt	Click for repair history
Street	Click for repair history

6.3. Edit Bike by id

6.3.1 Edit Bike License Plate

6.3.2 Edit Bike Repair Status

6.4. Add New Repair for a Bike

■ 6.4.1. Enter Bike by VIN

6.4.1.1. Enter Problem Date

6.4.1.2 Enter Repair Date

6.4.1.2.1. Enter Problem Description

6.4.1.2.2. Enter Repair Cost

6.5. Remove Bike

- 6.5.1: Select Bike by VIN (*note: so that the user can remove the bike and its data*)